

CLAIMS

I claim:

1. A method for generating a moving haven boundary along a voyage plan
5 comprising the steps of:

establishing a width, centered on said voyage plan, for said boundary;

creating rectangles having edges at said width and lengths equal to lengths
of strait line portions of said voyage plan, said boundary comprising said edges; and

10 determining pie shaped areas between rectangles at waypoints of said voyage
plan, said pie shaped areas having arcs between edges of rectangles on either side
of said waypoints.

2. A method in accordance with claim 1 further including the steps of:

15 generating a buffer having an outer buffer boundary at a selected distance
from said boundary;

forming buffer rectangles centered on said boundary having widths equal to
twice said selected distance, said buffer rectangles having buffer edges parallel to
said edges;

20 forming buffer arcs between said buffer edges of buffer rectangles on either
side of said waypoints, said buffer edges and said buffer arcs establishing polygonal
lines internal and external to said boundary; and

selecting said internal polygonal lines as said buffer boundary.